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STEP

AUTHORS: Markiv, V.Ya., Hladyshevs'kyi, Ye.I., and Kuz'ma, Yu.B.

TITLE: New ternary compounds with a structure of the type
 MnCu_2Al

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 10,
1962, 1329 - 1331

TEXT: The authors discuss ternary systems A-B-C, where A and B are transition metals and C are elements of the IIIB, IVB and VB groups of the periodic table. The aim of the present work is to investigate analogous systems in which C is gallium. Compounds of this type are found, where A = Ti, V and B = Fe, Co, Ni. The structure of the compounds resembles that of MnCu_2Al , and the lattice constants are given in tabular form. The space group is $\text{Fm}_3\text{m} - \text{O}_h^5$. It is shown that in the systems Ta(Nb, Mo) - Fe(Co, Ni) - Ga, and Sc(Zr) - Ni - Ga, similar compounds do not exist. The results are obtained using x-ray methods on alloys of metals of purity not less than 99.9 %, fused in an atmosphere of inert gas at 600°C. There are 3 tables.
Card 1/2

New ternary compounds with a ...

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ASSOCIATION: L'vivs'kyi derzhavnyi universytet (L'viv State University)

PRESENTED: by I.M. Frantsevykh, Academician

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